Amendments

Kindly enter the following amendments.

In the Specification:

Please substitute the paragraph beginning on page 39, line 12, with the following paragraph:

B1

Sequence A (SEQ ID NO:1) shows a portion of DNA sequence spanning the junction between the region unique to the COLIA1 locus and the 5' region of shared homology with the COLT-1 vector. The position and orientation of the COLTPCR4 primer is shown.

Please substitute the paragraph beginning on page 39, line 16, with the following paragraph:

B2

Sequence B (SEQ ID NO:2) shows a portion of DNA sequence spanning the junction between the IRES neo gene and the 5' region of shared homology. The position and orientation of the COLTPCR8 primer is shown.

Please substitute the paragraph beginning on page 40, line 1, with the following paragraph:

B3

The upper portion shows the sequence (SEQ ID NO:3) of the 5' end of the linearised COLT-1 gene targeting vector. Terminal sequence derived from a cloning vector is indicated.

Please substitute the paragraph beginning on page 40, line 4, with the following paragraph:

B4

The middle portion shows a portion of the sequence (SEQ ID NO:4) of the diagnostic 3.4 kb fragment amplified from each of the targeted cell clones 6, 13 and 14 spanning the

B4 junction between the region unique to the COLIA1 locus and the 5' region of shared homology with the COLT-1 vector.

Please substitute the paragraph beginning on page 40, line 9, with the following paragraph:

B5 The lower portion shows the sequence (SEQ ID NO:5) of the PDFF2 COLIA1 locus over the same region.

Please substitute the paragraph beginning on page 43, line 27, and bridging to page 44, with the following paragraph:

B6 The upper portion shows the sequence (SEQ ID NO:6) of the portion of the circular gene targeting vectors pPL501 and 502 at the 3' end of the 3' homologous arm of each. The junction between the 3' region of homology to the porcine α1,3GT gene and bacterial plasmid sequence is indicated.

Please substitute the paragraph beginning on page 44, line 4, with the following paragraph:

B7 The lower portion shows the sequence (SEQ ID NO:7) of the diagnostic 2.65 kb fragment amplified from four of the targeted cell clones spanning the junction between the region unique to the 1,3-GT locus and the 3' region of shared homology with the α1,3-GT gene targeting vector. The sequence derived from each clone was identical.

Please substitute the paragraph beginning on page 44, line 24, with the following paragraph:

B8 The upper portion shows the sequence (SEQ ID NO:8) of the portion of the circular gene targeting vector pPL522 at the 3' end of the 3' homologous arm of each. The junction between the 3' region of homology to the bovine BLG gene and bacterial plasmid sequence is indicated.

Please substitute the paragraph beginning on page 45, line 1, with the following paragraph:

B9

The lower portion shows the sequence (SEQ ID NO:9) of the diagnostic 2.3 kb fragment amplified from three of the targeted cell clones spanning the junction between the region unique to the BLG locus and the 3' region of shared homology with the BLG gene targeting vector. The sequence derived from each clone was identical.

Please substitute the nucleotide sequence designation at page 63, line 7, with the following:

B10

BLAT3-3: TAAGAGGCTGACCCCGGAAGTGTT (SEQ ID NO:10)

Please substitute the nucleotide sequence designation at page 63, line 8, with the following:

COLTPCR8: GACCTTGCATTCCTTTGGCGAGAG (SEQ ID NO:11)

Please substitute the nucleotide sequence designation at page 66, line 6, with the following:

B11

GAGTGGTTCTGTCAATGCTGCT (5') (SEQ ID NO:12)

Please substitute the nucleotide sequence designation at page 66, line 7, with the following:

GGAAGCTCTCCTCTGTTGTCTT (3') (SEQ ID NO: 13)

Please substitute the nucleotide sequence designation at page 66, line 17, with the following:

B12

GGTGGATGATATCTCCAGGATGCCT (5') (SEQ ID NO:14)

Please substitute the nucleotide sequence designation at page 66, line 18, with the following:

GCTGTTTAGTCATGAGGACTGGGT (3') (SEQ ID NO:15)

Please substitute the nucleotide sequence designation at page 68, line 8, with the following:

Neo442s: CATCGCCTTCTATCGCCTTCTT (5') (SEQ ID NO:16)

B13

Please substitute the nucleotide sequence designation at page 68, line 9, with the following:

Alpha-Gte9a2: AGCCCATCGTGCTGAACATCAAGTC (3') (SEQ ID NO:17)

Please substitute the nucleotide sequence designation at page 70, line 30, with the following:

B14

BoBLGpro: 5' CCA GTG CTG ATT TGA TTT CCT ACT CAC GCC 3' (SEQ ID NO:18)

Please substitute the nucleotide sequence designation at page 71, line 1, with the following:

B15

BoBLGpro7: 5' ACC TTC TGG ATA TCC AGG CCC TTC ATG GTC 3' (SEQ ID NO:19)

Please substitute the nucleotide sequence designation at page 72, line 26, with the following:

Neo442s: 5' CAT CGC CTT CTA TCG CCT TCT T 3' (SEQ ID NO:16)

B16

Please substitute the nucleotide sequence designation at page 72, line 27, with the following:

BLG3'1: 5' CCA GCA CAA GGA CTT TGT TCT C 3' (SEQ ID NO:20)